

Name _____



Date _____

The Law of Cosines

(Answer ID # 0733178)

Use the law of cosines to solve for the unknown.

<p>1.</p> <p> $\overline{MV} = 9.8$ $\overline{MD} = 20$ $\overline{DV} = 13.1$ $\angle D = \underline{\hspace{1cm}}^\circ$ </p>	<p>2.</p> <p> $\overline{ZE} = 16.3$ $\overline{ZB} = 11.4$ $\overline{BE} = 10.6$ $\angle B = \underline{\hspace{1cm}}^\circ$ </p>	<p>3.</p> <p> $\angle A = 23^\circ$ $\overline{QA} = 31.7$ $\overline{AU} = 18$ $\angle U = \underline{\hspace{1cm}}^\circ$ </p>
<p>4.</p> <p> $\angle F = 58^\circ$ $\overline{XF} = 122$ $\overline{QF} = 178$ $\angle X = \underline{\hspace{1cm}}^\circ$ </p>	<p>5.</p> <p> $\angle X = 65^\circ$ $\overline{NX} = 27$ $\overline{GX} = 20.4$ $\angle G = \underline{\hspace{1cm}}^\circ$ </p>	<p>6.</p> <p> $\overline{RV} = 118$ $\overline{RL} = 90$ $\overline{LV} = 46$ $\angle V = \underline{\hspace{1cm}}^\circ$ </p>
<p>7.</p> <p> $\overline{EP} = 80$ $\overline{EL} = 106$ $\overline{LP} = 76$ $\angle P = \underline{\hspace{1cm}}^\circ$ </p>	<p>8.</p> <p> $\angle C = 20^\circ$ $\overline{DC} = 77$ $\overline{CS} = 74.2$ $\angle D = \underline{\hspace{1cm}}^\circ$ </p>	<p>9.</p> <p> $\overline{YA} = 66.3$ $\overline{YX} = 159.8$ $\overline{XA} = 119$ $\angle Y = \underline{\hspace{1cm}}^\circ$ </p>